

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 12-2004)

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

PU4870USW

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

**10/522958**INTERNATIONAL APPLICATION NO.  
**PCT/US03/24272**INTERNATIONAL FILING DATE  
**August 4, 2003**PRIORITY DATE CLAIMED  
**August 8, 2002**TITLE OF INVENTION  
**Thiophene Compounds**

APPLICANT(S) FOR DO/EO/US

**ANDREWS, III, Clarence, W.; CHEUNG, Mui; DAVIS-WARD, Ronda, G.; DREWRY, David, Harold; EMMITTE, Kyle, Allen;  
HUBBARD, Robert, Dale; KUNTZ, Kevin, W.; LINN, James, Andrew; MOOK, Jr., Robert, Anthony; SMITH, Gary, Keith; VEAL,  
James, Martin**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. **EV 332064116 US**
23. ☒ Other items or information:
  - a) PCT Cover Page
  - b) PCT Request
  - c) Correct to PCT Request Before 30th Months

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/522958</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US03/24272</b>		ATTORNEY'S DOCKET NUMBER <b>PU4870USW</b>	
24. The following fees are submitted:				Applicant use	Office use
<input checked="" type="checkbox"/> a) Basic national fee ..... \$300.00				\$ 300.00	
<input checked="" type="checkbox"/> b) Examination fee ..... \$200.00				\$ 200.00	
<input checked="" type="checkbox"/> c) Search fee ..... \$500.00				\$ 500.00	
<b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b>				\$ 1,000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE		
- 100 =	/50 =		x \$250.00	\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	35 - 20 =	15	x \$50.00	\$ 750.00	
Independent claims	4 - 3 =	1	x \$200.00	\$ 200.00	
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00				\$ 0.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 1,950.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$ 0.00	
<b>SUBTOTAL =</b>				\$ 1,950.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$ 0.00	
<b>TOTAL NATIONAL FEE =</b>				\$ 1,950.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +				\$ 0.00	
<b>TOTAL FEES ENCLOSED =</b>				\$ 1,950.00	
Amount to be refunded:					\$
Amount to be charged:					\$
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>07-1392</u> in the amount of <u>\$1,950.00</u> to cover the above fees. A duplicate copy of this sheet is c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>07-1392</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</b> SEND ALL CORRESPONDENCE TO: _____					
<b>23347</b>				SIGNATURE	
				Lorie Ann Morgan	
				NAME	
				38,181	
				REGISTRATION NUMBER	

10/522958

DT05 Rec'd PCT/PTO 51 JAN 2005

## CERTIFICATE OF MAIL BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Andrews et al.

Docket No. PU4870USW

Serial No. To Be Assigned	Filing Date Concurrently Herewith	Examiner To Be Assigned	Group Art Unit To Be Assigned
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Invention: Thiophene Compounds

I hereby certify that the following correspondence:

Transmittal of National Phase Application with accompanying papers

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

Jan. 31, 2005  
(Date)

Valerie L. Phillips

(Typed or Printed Name of Person Mailing Correspondence)

Valerie L. Phillips  
(Signature of Person Mailing Correspondence)

EV332064116US

("Express Mail" Mailing Label Number)

JAN 2005

PCT Examination  
International Bureau of WIPO  
34 Chimin des Colombettes  
1211 Geneva 20  
Switzerland

Fax: 011 41 22 740 1435

Fax: USPTO (703) 305-3230

## Correction to PCT Request before 30<sup>th</sup> Month

Under 92 bis

Applicant's File Reference  
PU4870WO

Applicant  
SmithKline Beecham Corporation

International Application No.  
PCT/US03/024272

International Filing Date:  
04 August 2003

30<sup>th</sup> Month Deadline: 04 February 2005

Title: THIOPHENE COMPOUNDS

In the PCT Request please make the following change:

111-9 Applicant Inventor

111-9-4 Mook, Robert Anthony please change 111-9-4 to read: MOOK, Robert Anthony Jr.

PCT POA for Robert Anthony MOOK, Jr. is attached to this document.

Please acknowledge receipt of this request by return confirmation to (919) 483-7988 in the United States or mail to the following address:

GlaxoSmithKline  
Corporate Intellectual Property Department  
Five Moore Drive, PO Box 13398, MAIB475  
Research Triangle Park, NC 27709

If there should be questions, please call (919) 483-1545.

Thank you.  
Sincerely,



Lorie Ann Morgan, Agent for the Applicant

24 Jan 05  
Date